10060 - 10183

SPIRAL

NOTEBOOK

682

15¢

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10060 - May 10, 1965 | Vol. 585
Garfield Co., Utah.

Barren clay slopes just under the east rim of Waterpocket Fold, 45 miles south of Torrey. T. 30 S., R. 9 E., S. 9. Elevation about 4500 feet. Coleogyne zone. Leaves conspicuously blue-glaucous. Petals chlorochroleucous. Corona purple.

Asclepias cryptoceras Wats.

var. cryptoceras

Asclepias cryptoceras (9)

10061 - May 10, 1965
Garfield Co., Utah.
Rocky sandstone slopes
(some clay intermingled)
just under the east rim of
Waterpocket Fold. Coles-
Jyne Zone, Twp. 36 S.,
R. 9 E., S. 9. Elevation
about 4500 feet. Heads
yellow, with mostly
8 (7-9) rays. Plants
just beginning to bloom

Haplopappus armerioides
(Nutt.) A. Gray

Haplopappus armerioides (5) ✓

10062 - May 10, 1965
Garfield Co., Utah.
Gentle, gravelly, sandy slopes just outside the east rim of Waterpocket Fold, 45 miles south of Notom. Coleogyne zone. Twp. 36 S., R. 9 E., S. 9 or 10, near the corner of sections 9, 10, 15 and 16. Rays mostly 13 (11-14), white on top, pinkish beneath. Plants sparse.

Townsendia incana Nutt.

Townsendia (2) ✓

10063 May 10, 1965
Garfield Co., Utah
Sandy soil in Coleogyne
community just outside
the east rim of Water-
pocket fold, 45 miles
South of Notom.
Twp. 36 S., R. 9 E., S. 15.
Elevation about 4700
feet. Plants practically
inodorous. Flowers white.

Gilia inconspicua (Smith)
Sweet, sens. lat.

Gilia aff inconspicua (9) ✓

10064 - May 10, 1964
Garfield Co., Utah.
Barren clay slopes
in piñon-juniper zone
32 miles south of
Notom, Twp. 34S., R. 9E., S. 30
Elevation about 4600
feet. Plants scarce.
Flowers lavender-purple

Phacelia demissa Gray

Phacelia. (2) ✓

10065 - May 10, 1965
Garfield Co., Utah.
Same place as 10064
Leaves conspicuously
blue-glaucous. Flowers
whitish, marked with
dull purple.

Cymopterus
purpurascens (Gray) Jones

Cymopterus (16) ✓

10066 - May 10, 1965
Garfield Co., Utah.
Same place as 10064.
Leaves channeled.
Tepals pale whitish-
lavender, with a
darker midstripe out-
side. Filaments connate

Androstephium breviflorum
S. Wats.

Brodiaea (2) ✓1

10067 - May 10, 1965
Garfield Co., Utah.
Same place as 10064.
Tepals lavender,
much more purplish
midstripe outside.

Allium macropetalum
Rydb.

Omaha (3) ✓ ✓

10068 - May 10, 1965
Manfield Co., Utah.
Gradually slopes in
sandstone country,
pinon-juniper community, about 32 miles
south of Notom. Twp. 31S.,
R. 9E., S. 30 Elevation about
4600 feet. Flowers
rich purple, the banner
paler than the wings.
Astragalus desperatus Jones
var. conspectus Barneby
det. R. C. Barneby

A. desperatus (1) ✓

10065 - May 10, 1965

Wayne Co Utah.
Sandy, gravelly soil in
piñon-juniper zone at
the west side of Capitol Reef,
along the Burr Trail, 47
road miles east of Boulder.
Elevation about 5100 feet.
Leaflets 3 or sometimes 5.
Flowers pink-purple, the
banner paler than the
wings and keel. Pods
thick-walled, wholly
one-celled. (Twp. 34S., R. 8E., S. 16.

Astragalus Musiniensis Jones
det. R.C. Barneby

Astragalus (17) ✓ ✓

1970 - May 10, 1965

Garfield Co., Utah

Along a dry wash at the west side of Capitol Reef, on the Burr Trail 47 road miles east of Boulder. Twp. 34 S., R. 8 E., S. 16.

Elevation about 5100 feet

Small, sparkling trees about 10 or 12 m. tall. Leaves shiny but not glutinous to the touch, not yet fully expanded. Inflorescences drooping. Fruits mostly 4-carpellate and 8-grooved, some often 3-carpellate and 6-grooved. Populus fremontii S. Wats. Populus fremontii (24) ✓

10511 - May 11 1965

Wayne Co., Utah. Sandy banks of a dry wash at the west side of Capitol Reef, along the Burr Trail, 47. road miles east of Boulder. Pinon-juniper Zone. Elevation about 5100 ft. Flowers pink-purple, the banner paler than the wings and keel. Calyx notably reddish.

(Twp. 34S., R. 8E., S. 16.)

Astragalus mollissimus (Torr.) var. thompsoniae (Wats.) Barneby T-16.

det. R.C. Barneby

Astragalus (6 ✓)

10072 - May 11, 1965 Garfield Co., Utah. Open, rocky slopes in sandstone country along the Burr Trail at the west side of Capitol Reef, 47 road miles east of Boulder. Elevation about 5200 feet. Piñon-juniper zone. Flowers mostly white or very nearly so, pale but distinctly lavender. Twp. 34S., R. 8E., S. 16.

Phlox hoodii Richards.

Phlox hoodii (TD) ✓

Plate #4 Papaipema furnitibi
#5. mullein Canyon,
#6+7 Pitman (Reading) - juniper
mountain forest 6200'
- Lassen Volcanic - Warfield
Co. Utah 1380.3

10073 - May 11, 1965

Garfield Co., Utah. Loose, sandy slopes in pinion-juniper country 10 miles southeast of Boulder, 3 miles past Deer Creek on the road to Burr Trail. Twp. 34S., R. 5E., S. 14. Elevation about 5400 feet. Flowers pink-purple, the banner paler than the wings and keel. Calyx green-red.

Astragalus mollissimus (Torr.) T. & G. var. thompsoniae (Wats.) Barneby

det. R. C. Barneby

1971

10014 - May 11, 1965

Garfield Co., Utah.

Sandy slopes and flats in pinon-juniper country, [illegible] about 10 miles southeast of Boulder. Twp. 35 S., R. 4 E., S. 1; or Twp. 34 S., S. 36. Elevation about 4900 feet.

Leaves pale-green, the veins and keel pale-green. Calyx white. Plants tap-rooted, developing a multicipital caudex in age.

Astragalus mollissimus (Torr.) T. & G. var. thompsoniae (Wats.) Barneby

Astragalus

32

10075 - May 11 1965.

Garfield Co., Utah.

Loudy flats along
Calf Creek, about 10
miles south of Boulder,
in pinon-juniper country.
Twp. 35 S., R. 4 E., S. 1; or Twp. 34 S., S. 36.
Elevation about 4900
feet. Flowers vermilion -
red to crimson.

Gilia subnuda Torr.

M. C. [illegible] (4) ✓

1976 - May 11, 1957
Garfield Co., Utah.
Sandy, gravelly slopes
along Calf Creek, in
Pinion-juniper country
about 10 miles south
of Boulder. Same Twp R. 5 E.
Elevation about 4900 feet.
Rays 10-17, white
inside, dull pinkish
outside.

Townsendia incana Nutt.

Townsendia (c) ✓

10077 - May 11, 1965

Garfield Co., Utah.

Rocky, sandstone slopes in pinon - juniper woodland along Calf Creek about 10 miles south of Boulder.

Twp. 35 S., R. 4 E., S. 1.

Elevation about 4900 feet.

Flowers pale lavender to lavender purple.

Arabis perennans Wats.

Arabis (3)

10078 - May 12, 1965
Kane Co. Utah,
Locally sloped (the
stands wounded, water-worn)
in pinon-juniper community
overlooking Paria Creek,
4 miles south of Cannonville.
Twp. 38S, R2W., S.7. Elevation
5300 ft. Flowers
bright pink purple.

Astragalus amphioxys Gray
var. vespertinus (Sheld.) Barneby
det. R. C. Barneby

Astragalus

10079 - May 12, 1965

Kane Co., Utah

Gravelly slope (the stones rounded, water-worn) near the top of a small ridge overlooking Paria Creek, in pinon-juniper community, 4 miles south of [illegible]. Twp. 38S., R. 2W., S. 7. 5500 feet [illegible]. Flowers purple. Pods arcuate-spreading. Growing with #10050, A. pendulina, but clearly distinct.

Arabis perennans Nels.

(9)

May 12, 1965

Kane Co Utah

Some plants as 10077.

Flowers rather pale lavender.

Pods descending at an angle. Growing with # 10079 A. perennans, but clearly distinct

Arabis pendulina Greene

Arabis - dawn-pod

35

1081 - May 12, 1964

Kane Co. Utah

Sand Dunes on 1-70,

Erect very rich pink,

sweet-scented.

Abronia nana S. Wats.

Abronia

7

1[illegible]2 - May 12, 1905

Kane Co. Utah

Same place as 10073.

Rays about 13, white inside, dull pinkish outside. Flowers [illegible]

Townsendia incana Nutt.

T [illegible] (4)

1965 - May 13, 1965.
Kane Co. Utah
Same place as 10078. Elev
5400 feet elevation.
Flowers sweet-scented
white to lavender-purple.

Phlox hoodii Rich.

Phlox hoodii (4)

10084

May 15, 1965

Mohave Co., Arizona

Sandy soil near the south base of Steamboat Rock, 2 miles west of Fredonia.

Twp. 41 N., R. 3W., S. 24.

Elevation about 4700 feet.

Fruits dull. Corolla, the banner paler than the wings and keel

Lupinus kingii S. Wats.

Lupine (19)

May 15, 1965. #10085

Mohave Co., Ariz.

Same place as 10034. Plants creeping extensively below ground and becoming colonial by deliform horizontal roots, sometimes also eventually expanded. Flowers not [illegible]. Mature pods pendulous, inflated, mottled with reddish-brown.

Astragalus ceramicus Sheld.
var. ceramicus
det R. C. Barneby

Astragalus

10082 - May 15, '05

Sedalia, Co. Uintah.

Edges of barren clay slopes at the south end of Steamboat Rock, 2 miles west of Fredonia.

Twp. 42 N., R. 3W., S 24.

Elevation about 4700 feet.

Bracts scarlet to crimson.

Castilleja chromosa A. Nels.

Castilleja (5) ✓

10087 May 15, 1965.
Mohave Co., Arizona.
Sandy clay flats over-
looking Cottonwood
Creek, near Steamboat
Rock, 2 miles west of
Fredonia Twp. 41 N., R.
3 W., S. 24. Elevation
about 4700 feet. Plants
[illegible]. Leaves channeled
Perianth segments with
[illegible] with midstripe
outside, otherwise dull
[illegible], faintly laven-
[illegible].
Andrastephium breviflorum
Bradiaea (1) ✓ [illegible].

16058 - May 16, 1965

Mohave Co., Arizona. In open pinon-juniper woodland on rocky (sandstone) east slope overlooking a creek two miles northeast of Cane beds and 33 miles southeast of Hurricane.

Twp. 41 N., R. 5 W., S. 7 or 18.

Elevation about 5300 feet.

Leaves blue glaucous. Flowers ranging from true red (seldom) to crimson, deep pink, or reddish-purple. Plants visited by hummingbirds.

Penstemon utahensis Eaton.

Penstemon (8) ✓

10089 – May 16, 1965
Mohave Co., Arizona. Same
place as 10088. Plants
forming mats suggestive
of those of P. hoodii, but
looser, with more
evidently erect stems.
Leaves very pungent.
Flowers bright pink-
-lavender to white.

Phlox austromontana
Coville

10020 - May 16, 1965
Mohave Co., Arizona
Lower placer 1088.
Flowers bright
pink-purple, the banner
with a large circular
pale spot.

Astragalus amphioxys Gray
var. vespertinus (Sheld.)
Barneby
det. R.C. Barneby

(2)

1091 May 16, 1915
Niobrara Co, Wyoming
Lower Benches 100 ft

Arabis perennans Wats.

Arabis (1) ✓

10092 - May 16, 1935

Washington Co., Utah.

With scattered junipers and sagebrush on low, sandy ridge in the desert 20 miles southeast of Hurricane.

Elevation about 4900 feet.

Gilia inconspicua (Smith)
Sweet, sens. lat.

Gilia (16) ✓

1093 - May 16, 1965

Washington Co., Utah.

Same as Coll. no. 1092.

Corolla limb white

the throat yellowish.

Phacelia ivesiana Torr.

Phacelia ivesiana

1007 - May 16, 1965
Washington Co., Utah.
Same place as 1092.
Flowers yellow.

Oenothera Contorta
Dougl.
var. flexuosa (A. Nels.) Munz

Alt. #1 (3) V

10095 - May 16, 1964

Washington Co., Utah

Same place as 10092.

Chorizanthe thurberi

(Gray) S. Wats.

35

1096 May 16, 1965
Washington Co., Utah
Same place as 1092.
Flowers mainly in bunches.
Nutlets all alike, slightly
roughened on the back,
about 1 mm long.

Cryptantha circumscissa
(H. & A.) Johnst.

Cryptantha circumscissa (4)

10097 - May 16, 1965. Washington Co., Utah. Aspen, piñon-juniper woodland on rocky (sandstone) north slope 12 miles southeast of Hurricane.

Elevation about 4700 feet. Plants mat-forming, but the flowering stems erect. Leaves very pungent. Flowers ranging from pink-purple to pink-lavender to nearly white

Phlox austromontana
Coville

(10)

10098 - May 16, 1965
Washington Co., Utah
With A. gilmanii at the
bottom of a north-
facing sandstone
slope, 12 miles
southeast of Hurricane.

Elevation about 4700 ft.
Leaves glaucous. Corolla
dull blue. Banner
the wings nearly white.

Astragalus ensiformis Jones
det. R. C. Barneby

717
Astragalus

10099 - May 17, 1965

Washington Co., Utah.
Around the base of local
basalt ledges in sage-
brush-Coleogyne Zone in
the bed of 7 miles southeast
of Hurricane. Twp. 42S.,
R. 12W. Elevation about
4500 feet. Stems clust-
ed on a taproot and
branching caudex. Flowers
orange-red.

Sphaeralcea parvifolia
A. Nels.

Sphaeralcea 22 ✓

10100 - May 17, 1961

Washington Co., Utah.
Sagebrush-Colorgyne community on soil derived from basalt, 7 miles southeast of Hurricane, Twp. 42 S., R. 12 W. Elevation about 4500 feet.

Petals soft [illegible] with a yellow rimmed, orange-hairy, half-moon-shaped gland above a truncate-crenate basal red spot.

Calochortus flexuosus S. Wats.

Calochortus (2) ✓

10101 - May 17, 1965
Washington Co., Utah.
In sagebrush - Virgin
Community - Virgin Desert
Trail and Desert of
Hermicane. Twp 42 S.,
R 12 W. Section about
4500 feet. Leaves fly
aromatic. Shrub about
1 m. tall. Petals pale
ochroleucous, almost
white.

Cowania stansburiana
Torr.

"Cowania" (3)

10152 May 17, 1961
Washington Co., Utah.
Sagebrush-Colorgyne
community in the desert
7 miles southeast of
Hurricane. Twp. 42S.,
R. 12W. Elevation about
4500 feet. Shrubs
up to about 6 dm. tall,
leaves alternate

Ephedra torreyana Wats.

Ephedra 22

10103 - May 17, 1961

Washington Co. Utah.
Sandy soil in the desert near the Virgin
River 12 miles northeast
of St. George. Twp 42 S.,
R. 14 W. Elevation about
2800 feet. Flowers minute,
white. Root reddish.
Plants slender, all the
same size, 1.0-1.1 mm. long,
in same plants all tuberculate,
in others 3 smooth and
one tuberculate

Cryptantha micrantha
(Torr.) Johnst.

Cryptantha 35

10104 - May 19, 1965

Washington Co, Utah.
Rocky sandstone slopes
overlooking the Virgin
River, 12 miles northeast
of St. George. Twp. 42S,
R. 14W. Elevation about
2800 feet. Flowers
pink-purple, opening
in late afternoon,
wilting in the morning
sun. Stems clustered
on a stout taproot.
This same species observed on slopes
along the river all the way upstream
to Zion National Park.
Mirabilis Froebelii (Behr) Greene
Mirabilis laevis (4)

10195 May 18, 1965

Washington Co., Utah.
Sandy soil in the desert
along the Virgin River
12 miles northeast of St.
George. Twp. 42 S., R 14 W.
Elevation about 2,800 feet.
Shrubs 1-3 m. tall, heavy-
scented, widely scattered
and not forming a char-
acteristic Larrea community.
Flowers bright
yellow.

Larrea divaricata Cav.
(L. glutinosa)

Larrea (35) ✓

10105 - May 18, 1915
Same place as 10105
Sweet-scented shrubs
mostly 4-7 dm. tall.

Hymenoclea Salsola T. & G.

Hymenoclea (35)

10107 - May 18, 1965.

Same plants as 10105.
Shrubs up to nearly 1 m.
tall. Spiny branches
of the season still
relatively soft and
pliable. Flowers
yellow, soon fading
to ochraceous.

Tetradymia spinosa H. & A.
var. longispina M. E. Jones

!

Tetradymia (35) ✓

10108 - May 18, 1965

Same as 10105.

Leaves broadly rounded
Stems mostly 3-4 dm.
Tall. Plants widely
scattered, not a dominant
element in the weed
community.

Ambrosia (Franseria)
dumosa (A. Gray) Payne

"Franseria"

15 ✓

10109 May 18, 1965.

Same places 10105.

Shrubs upto nearly
1 m. tall. F. Leaves
intense deep blue-violet.

Dalea fremontii Torr.

Dalea fremontii (12) ✓

10 mi S. May 18, 1965.
Sand flats 10105.
Stems numerous, clustered
on a stout taproot,
loosely ascending from
a creeping base.
Pubescent.

Mirabilis bigelovii Gray
Var. retrorsa (Heller) Munz

subsp. Mirabilis (L6)

1011 - May 15, 1965

Same places as 1005.

Deep-rooted perennials.

Perianth white.

Abronia fragrans Nutt.

1164

Abronia (11)

1512 - May 19, 1965
Frame placed on 10/05.
Shrubs up to about 8 dm.
Calf. Dish orange.
Rays yellow, mostly
12-22.

Encelia frutescens A. Gray
var. virginensis (A. Nels.) Blake

Blake

Encelia 16

10113 - May 19, 1965.

Same place as 10105.
Corolla tube long. Can.
ender, distinctly irreg-
ular. Stamens very
unequal.

Eriastrum eremicum
(Jeps.) Mason.

Eriastrum (4)

10' S - May 19, 1965
same place as 10105.
Perianth-segments
white, with
reddish midstripe out-
side.

Eriogonum maculatum
Heller
det. James Reveal

Envs. ... (7) ✓

10115 - May 19, 1905
Same place as 10105.
Disk orange-yellow.
Rays yellow, mostly 8.

Eriophyllum wallacei A. Gray

Eriophyllum (6)

10111 L - May 19, 1965
Same places as 10105.

Cryptantha recurvata
Cov.

Cryptanthe (5) ✓

10117 - May 19, 1965
Washington Co., Utah,
crevices and ledges of
shelving sandstone
rocks along the Virgin
River 12 miles northeast
of St. George. Twp. 42S.,
R. 14W. Elevation about
2800 feet. Flowers white,
stems numerous, densely
tufted from an elongated
taproot. Smaller plants
mat-forming, as in A.
congesta; longer ones
loose and shrubby, to
ups to 3 dm. at the base.
Arenaria macradenia Wats.
var. macradenia
A. congesta

35

10118 - May 19, 1965
Fairmont Flats 10105.
Low, rounded shrubs
about 3 dm. high.
Heterotheca.

Acamptopappus
sphaerocephalus (Harv.
& Gray) A. Gray

A. Camptopappus (7)

10119 - May 19, 1965.

Same plant as 10107.
Much branched from
shrubs, Perianth
segments white or
faintly pinkish,
with a reddish
midstripe outside.

Eriogonum fasciculatum Benth.
var. polifolium (Benth.) T. & G.

det. James Reveal

Plant Conservation 20

10120 – May 19, 1965.

Rocky roadside slope
in Ivy the Virgin River
about 12 miles north-
east of St. George.

Elevation about 2800 feet
Plants half-shrubs, up
to about 7 or 8 dm. tall.
Rays 38–56, rather
light blue-lavender,
rarely white.

Machaeranthera tortifolia
(T. & G.) Crong. & Keck
var. tortifolia
Machaeranthera tortifolia (16)

10121 - May 19, 1965

Kane Co., Utah.

Forming great colonies locally along the road side in sandy soil in piñon-juniper 3 and 8 miles east of Mt. Carmel. Twp. 41 S., R. 8W., S. 8 Elevation about 5800 feet. Plants spreading freely by underground runners reddish.

Lathyrus zionis C. L. Hitchc.

1300

(10) ✓

10122 May 20, 1965

Kane Co., Utah - Sandy clay soil in juniper-sagebrush community 25 miles east of Kanab. Twp. 42 S., R. 3 W., S. 33. Elevation about 5500 feet. Growing with 10123, G. inconspicua, but sharply distinct. Plants mildly malodorous, but not mephitic. Corolla throat yellowish, tube, limb very pale lavender (deeper lavender outside), the lobes coarsely laciniate. Basal leaves forming a rosette on the ground.

Gilia leptomeria Gray.

Phlox (white) (4) ✓

10123 - May 20, 1965. Same place as 10122. Grancingwith
10122. G. leptolomia, but sharply distinct.

Plants unbranched, corolla throat yellowish, th. linear lanceolate, leaves more or less ascending, not lanceolate.

Gilia inconspicua (Smith)
Sweet, sens. lat.

Wide-spread (11) ✓

10121 - May 20, 1965
Same place as 10122

Corolla rather pale lavender, with darker lines. Palate and staminode conspicuously bearded.

Penstemon sp.

Pena Canyon ✓

10125 - May 20, 1915.

Same place as 10122. Flowers blue-violet.

Penstemon thompsoniae (Gray) Rydb.

Pinedale (3) ✓

10122 - May 20, 1965.

Same as 10122.
Plants spreading
vigorously below the
ground. Flowers
bright pink.

Phlox longifolia Nutt.

phlox (8) ✓

1012. May 30, 1965
Kane Co., Utah. In
barren clay soil in
juniper-sagebrush
region near the top of
a small ridge in the
desert 25 miles west of
Kanab. Twp. 42 S., R. 3 W.,
S. 33. Elevation about
5500 feet. Old flowers
dark blue-violet,
pubescent, strictly
unilocular.

Astragalus megacarpus
(Nutt.) Gray
det R. C. Barneby
Astragalus (17)

1013 E - 1 May 20. 1965
Kane Co., Utah Lambert
dry soil in juniper
sagebrush region on a
small ridge in the
desert 25 miles east of
Kanab. Twp. 42 S., R. 3 W.,
S. 33. Elevation about
5500 feet. Flowers
bright pink-purple,
Pinnate form, reduced
one-sided, spicate
with reddish-brown,
somewhat compressed dorsiventrally.
Astragalus amphioxys Gray
var. vespertinus (Sheld.) Barneby
det. R. C. Barneby
(11)

10129 - May 20, 1965.
Kane Co., Utah. Under
Juniperus atop a small
ridge in the desert 25 miles
east of Kanab, Twp. 42 S.,
R. 3W., S. 33. Elevation
about 5500 feet. Flowers
white, turning pink in
age.

Oenothera pterosperma
Watts.

Oenothera (2) ✓

10 30 - May 20 1965

Kane Co, Utah. Barren, fractly clay slopes on the west side of Paria River, just upstream from the abandoned settlement of Paria. Twp. 41 S., R. 1 W., S. 18. Elevation about 4700 feet. Pendants yellow.

Eriogonum Flexum M.E. Jones

det. James Reveal

(35) ✓

10131 - May 21, 1965
Kane Co., Utah. On the less
eroding sites on barren
clay slopes along the west
side of the Paria River, just
upstream from the aban-
doned settlement of Paria.
T. 42 S., R. 1 W., S. 18.
Elevation about 4700 feet.
Stems several or solitary
on a decurrent, prostrate,
much branching tips.
Corolla-lobes dull
white, chromeuous, the
corona purple.
Asclepias cryptoceras Wats.
var. cryptoceras
Asclepias cryptoceras (8) ✓

10·32 - May 21, 1965
Kane Co., Utah

In the bottom and the more gravelly parts of barren clay slopes on the west side of the Paria River, just upstream from the abandoned settlement of Paria. T. 42 S., R. 1 W., S. 18. Elevation about 4700 feet

Astragalus newberryi Gray
var. newberryi
det R. C. Barneby

Astragalus newberryi - leaf (5) ✓

10133 - May 21, 1965 - May 21, 1965. Same place as 10132
Leaves solid, subterete, broadly elliptic in cross-section, except toward the base, where broadly and shallowly channeled. Perianth segments white with a reddish lavender midstripe, otherwise white or nearly so. Crests 1/3, thin, conspicuous, narrow, about 2 mm long
Allium nevadense S. Wats.

additional 13 ✓.

10134 - May 21, 1965.
Same place as 10132.
P. Pants unspecific.
Leaves more or less closely
ascending, not forming
a flat basal rosette.
Corolla lavender-blue,
the throat yellowish.
Growing with #10135,
G. leptomeria, but
sharply distinct.

Gilia inconspicua (Smith)
Sweet, sens. lat.

(20) ✓

var. Gilia

10135 - May 21, 1965,
Same place as 10132. Plants
malodorous, but not
mephitic. Leaves bright
green, forming a basal
rosette flat on ground.
Corolla throat yellow,
the limbs appearing white
from above, more lavender
from beneath, the lobes
markedly toothed

Gilia leptomeria Gray

Gilia (H) ✓

1936 - May 21, 1965

Leaves bright green.

Flowers probably yellow.

Cymopterus purpureus
Wats.

fornatum (2) ✓

10137. May 21, 1965.
Same place as 10132.
Petals white, with a
crescent-shaped maroon
spot above a whitish-
-hairy gland that is
narrowly maroon-
-rimmed and other-
-wise surrounded
by a yellow area.

Calochortus flexuosus
S. Wats.

(6) ✓

10158 - May 21, 1965

Same place as 10132.
Flowers white or
very faintly lavender-tinted, turning
ochroleucous in age.

Astragalus flavus Nutt.
var. candicans Gray
det. R.C. Barneby

(Collection Number) (10)

10139 - May 21, 1965.

Same as 10132.

Plants fairly abundant but just beginning to bloom. Disk yellow. Rays about 7-13, white.

Machaeranthera glabriuscula (Nutt.) Cronq. var. confertifolia Cronq.

Machaeranthera (1) ✓

10140 - May 21, 1933
Kane Co., Utah. Sandy,
gravelly soil in juniper-
sagebrush region in
the desert 40 miles east
of Kanab. Twp. 42 S., R. 2 W.,
S. 2 Hor 25. Flowers
about 5 mm. long. Petals
soft lavender, with
an orange-hairy gland in
a basal median and
yellow spot. Anthers
dull lavender:
Calochortus flexuosus
S. Wats.
Calochortus (7) ✓

10141 - May 21, 1965

Same place as 10140.

Foliage glaucous. Flowers
bright blue (delphinium
lavender-purple). The
upper petals nearly
white.

Delphinium andersonii
Gray

La Luna (13) ✓

1012 - May 21, 1905
Loc. plants 1040.
Grows clustered on a
[illegible] gravelly
[illegible] hillside.
Fruiting [illegible]

Astragalus eremiticus
Sheld.

1502
Astragalus (21) ✓

10143. May 22, 1964 - Kane Co., Utah. Very sandy soil in the desert a scant mile west of Glen Canyon City, and about 57 miles east of Kanab. Twp. 42 S. R. 2 E. Sec. 3 Elevation about 4300 feet Annual. Stems widely spreading ascending. Leaves bright green above, dull beneath. Peristome reddish or purplish. ~~Known from Utah 1060, Ariz.~~

~~Tetraglochin Nuttallii~~

Tetraglochin wootoni Standl.

Arizona (11)

10'64 - May 22, 1965
Lawn plant a-10 1/4?
Compta lavender

Coldenia canescens DC,
sens. lat.
Perhaps an undescribed variety.

Range ②

10'05. May 22. 1965.
Kane Co., Utah. Same place
as 10143. Stems clustered
on a perennial taproot.
Flowers bright pink-
purple, the banner
with a large central
whitish spot.

Astragalus amphioxys
Gray
var. amphioxys
det. R. C. Barneby

Astragalus (19) ✓

1046 May 22, 1865
Same places 10143.
Leaves erect, forming
a central tuft at the
base. Heads cylindric.
Pappus bright white,
quickly deciduous
except for 2 more
persistent awns.

Malacothrix glabrata
A. Gray.

Memoranda ? (5) ✓

10147 - May 23, 1965
Same place as 10143.

Leaves forming a
rosette flat on the
ground. Heads yellow,
Pappus bright white,
wholly deciduous.

Malacothrix sonchoides
(Nutt.) T. & G.

13

[illegible] May 22, 1915

[illegible] as 101 C3

Plants annual. Leaves glaucous. Flowers deep blue, the banner with a large central white spot.

Lupinus kingii S. Wats.

Lupini (14) v

10149 May 22, 1965
same place as 10143.

Plants highly variable in leaf dissection, the variation not evidently correlated with anything else. This number represents the least dissected (continuously variable) phase of the N population - Cf. nos. 10150 and 10151.
Flowers brick-orange.
Stems several, clustered and tufted.
Sphenalcea parvifolia A. Nels.

Botanical Gardens, U.C.

10:00 A.M. May 22, 1965

Same place as 10143

Leaves several, clustered on a taproot, flowers brick-orange, Plants highly variable in leaf-dissection, This number represents the average between the two extremes of a continuously variable population. Cf. nos. 10149 and 10151.

Sphaeralcea. Intermediate between S. parvifolia and S. grossulariaefolia as treated by Kearney.

Sphaeralcea sp. (12)

10151 - May 22, 1965
Same place as 10143.
Stems several, clustered
on a taproot. Flowers
brick-orange. Plants
highly variable in leaf-
dissection. This number
represents the most
dissected phase of a
continuously variable
population. Cf. nos.
10149 and 10150.

Sphaeralcea grossulariifolia
(H.B.K.) Rydb.
var. pedata (Torr. ex Gray)
Spetsman. comb. (12)

10152 - May 22. 1965

Same place as 10143.

Corolla white, with a yellowish throat.

Pistil cross-corrugated.

Phacelia ivesiana Torr.

phacelia (15) V.

1253. May 22, 1965

Same place as 10143.

Corolla white.

Dithyrea wislizeni Engelm.

(6)

1 - May 22 1964

Sand plain ecotone 3.
Plants malodorous,
but not mephitic.
Leaves bright green,
forming a flat rosette
at or a little above
the ground surface.
Corolla throat yellowish,
the lobes spreading, dull
whitish. Lavender,
tending to be more pink
or showily evanescent.

Gilia leptomeria Gray

rosette Gilia (15)

10155 - May 22, 1965
Same place as 10143.
Corolla white.

Cryptantha pterocarya
(Torr.) Greene
Lit. pterocarya

(6)

10156 - May 22, 1923

Same plant as 10143.

Rays mostly 19-23 (commonly 21), white above, dull pink-lavender beneath.

Townsendia incana Nutt.

19-21

Townsendia

5 ✓

10157 - May 22, 1965

Same place as 10143

Corolla white.

Nutlets muricate,

3 of them 1.5 mm long,

readily deciduous, deeply

excavated ventrally

the fourth 2.0 mm,

persistent.

Cryptantha crassisepala

(T. & G.) Greene

annual herbaceous (5) ✓

1958 - May 22. 1965
Same as 10143,
Heads bright white.

Chaenactis stevioides
H. & A.

Chaenactis (4) ✓ ✓

1059 - May 22, 1965.
Lamplaccas 10143
plants aromatic.
Heads bright yellow.

Hymenopappus filifolius
Hook.
var. pauciflorus (Johnston)
Turner

(8)

1016 O - May 22, 1965

Same plant as 1014 3

Plants perennial,
spreading below ground.
Flowers white. ~~Growing~~
~~with # rocks, a~~
~~, but sharply~~
~~distinct,~~

Abronia fragrans Nutt.

abronia (11) ✓ ✓

1061 - May 22, 1965
Lampasas co. 1043.
Corolla white, even
the fornices. Only
a few plants seen.

Cryptantha jamesii
(Torr.) Payson
var. disticha (Eastw.) Payson

Perennial. Erect. (1) ✓

10162 - May 22, 1965
Same species 10143.
Corolla white,
perhaps with a
faint bluish cast.

Gilia gunnisoni T. & G.

var. ?

Gilia D

10163 – May 22, 1965
Same place as 10143.
Root red. Corolla
minute, white.

Cryptantha
circumscissa (H. & A.)
Johnst.
var. circumscissa

(4)

1064, May 25, 1940
Kane Co. Utah
In pockets of sand over-
lying sandstone rocks
in bottom of wash west
of Kanab City and
56 miles east of Kanab.
Twp. 43S. R. 2E. S. 9
Elevation about 4H00 feet.
Plants Tap rooted; forming
a mat with short, erect
leafy flowering branches
from woody perennial.
Flowers pink purple.
Astragalus kentrophyta Gray
var. coloradoensis Jones
det. R.C. Barneby
Astragalus kentr. (3)

May 23, 1965

Kane Co., Utah. In very sandy soil about a rocky point 2 miles west of Glen Canyon City and about 56 miles east of Kanab. Twp. 43 S., R. 2 E., S. 9. Elevation about 4400 feet. Stems clustered and branching erect. Flowers yellow, the corolla tube fading to achromatous in age, but the ligules remaining yellow; not all maturing

Nutlets smooth, sharp-edged

Cryptantha flava (A. Nels.) Payson

yellow Cryptantha (T)

1016C - May 23, 1965

Lampocaccus 1016C.
Stems 1 or few on solitary
rosette. Corolla
white, even the [illegible]
Nutlets smooth,
sharp edged.

Cryptantha jamesii
(Torr.) Payson
var. distincta (Eastw.)
Payson

white Plateau Canyons. (5) ✓

10167 - May 23, 1965

Same places as 10165.

Stems erect in a tight cluster, 2 ½ inches tall, 19-32, blue-lavender.

Erigeron utahensis A. Gray
var. utahensis

32

Erigeron utahensis (3) ✓

10168 May 23, 1964
Same plant as 10165
Stems clustered on a
stout, branching caudex
which terminates a more
or less definite taproot.
Heads yellow, with
mostly 10-20 (often 3)
rays, these persistent,
becoming reflexed.

Hymenoxys scaposa (DC.) Parker
var. linearis (Nutt.) Parker

Ligulate rays (15) ✓

10169 - May 23, 1965

Same place as 10165,

Leaves bright green.

Flowers yellow.

Cymopterus newberryi

(Wats.) Jones

(2) ✓

1923 - N. of Jct. 1 Mi.
Tanner Creek 2100'.
Corolla blue. Lavender.
Plants in mass
ill-scented. Seeds
2 in each locule.

Phacelia crenulata
Torr., sens. lat.

P. crenulata (16)

10171. May 23, 1965

Same place as 10165.

Much-branched shrubs forming broad, low mounds which catch the drifting sand. Plants pleasantly aromatic. Flowers bright blue-lavender, some plants paler than others.

Salvia dorrii (Kell.) Abrams, sens. lat.

(21) ✓

13172 Aug 22, 1965
Lampaya cerasa 10165.
Much branched, pleasantly aromatic shrub forming broad, low mounds which catch the drifting sand. Flowers rather light blue-lavender.

Poliomintha incana
(Torr.) Gray

7D

Poliomintha (22)

10173 - May 23, 1965
Kane Co., Utah Very
sandy soil around the
edge of big sand dune
1 1/2 miles east of the Paria
River and 12 miles west
of Utah Canyonlands.
45 miles east of Kanab.
Flowers lavender. Pods
finely marked with dark
brick red on a pale background.

Twp. 43 S., R. 1 W., S.L.
Elevation about 4500 feet.

Astragalus ceramicus Gray
var. ceramicus
det R.C. Barneby
Astragalus

(14) ✓

10174 - May 23, 1925.

Kamptzkaras 10173.

Pods deep-rooted,
and also with slender
creeping roots. Flowers
[illegible].

Coldenia canescens DC.,
sens. lat.

Perhaps an undescribed variety

10175 - May 23, 1965
Same place as 10173.
F. Lamson-Scribner & Chickering.

Asclepias involucrata Engelm.

asclepias (3) ✓

10176 - May 23, 1965.
Same places as 10173.
Plants annual. Flowers
bright blue, the banner
with a central white
spot.

Lupinus pusillus Pursh
var. rubens (Rydb.)

Lupinus annual (+) ✓

10177 - May 23, 1965.
Same place as 10173
Plants extensively
Creeping blue-ground.
Leaves somewhat glaucous
Flowers bluish.

Comandra umbellata (L.) Nutt.
var. angustifolia (A. DC.) Torr.
(C. pallida)

Comandra (5) ✓

10178 - May 23, 1965.
Same place as 10173.
Plants annual.
Perianth-limb white,
the lobes directed.

Tripterocalyx wootoni
Standl.

Alsinia (5) ✓

10179. May 23, 1964.
Same place as 10173.
Camellawhite

Gilia gunnisoni T. & G.

10180 May 24, 1965

Nye Co., Nevada.

~~Low~~, Alkaline mesa in the desert just east of Currant, Desc. with Atriplex, Grayia, Tetradymia. Twp. 10 N. R. 56 E., S. 8. Elevation about 5200 feet. Perianth pink, opening in late afternoon.

Hermidium alipes S. Wats.

Mendota (6) ✓

10581 - May 24, 1965

Nye Co., Nev. ~~Sandy~~,
alkaline ridges in the
desert just east of Currant.
Assoc. with Atriplex,
Grayia. Twp 10 N., R. 58 E.,
S. 8. Elevation about +5200
feet. Intricately
branched leaves-shrubs
up to about 7 dm. tall.

Tetradymia spinosa H. & A.
var. spinosa

✓

Tetradymia spinosa

10182 - May 24, 1915.
Campanaceæ 10180.
Petals inconspicuous
purplish.

Thelypodium laciniatum
(Hook.) Endl.

Scapi tantum 3 1 ✓

10183. May 24, 1965.
Rather alkaline gentle
slopes in the desert just
east of Currant, Nye Co.,
Nevada. Twp. 10N, R. 58E.,
S. 8. Elevation about
5200 feet. Plants scarce.

Astragalus newberryi Gray
var. newberryi
det. R. C. Barneby

ID
confirmed (1) ✓

Journal V.R. 1775.7

945.2 [illegible]

864.9 [illegible]

865.1 [illegible]

875.8 [illegible]

[illegible]

[illegible]

[illegible]

911.8 [illegible]

[illegible] at Highway

[illegible]

927.0 [illegible]

58.9 [illegible]

[illegible]

[illegible]

1535.8 Junction [illegible]

1665 [illegible]

1616.6 [illegible]

613 [illegible]

1617.9 [illegible]

[illegible]

[illegible]

651.65 [illegible]

655.8 [illegible]

660.6 [illegible]

621 [illegible]

649 [illegible] sand

720 [illegible]

[illegible]

1755 [illegible]

[illegible]

71.2 at Bear Trail

73.6 at Camp

98.4 at Fremont

sandy slopes

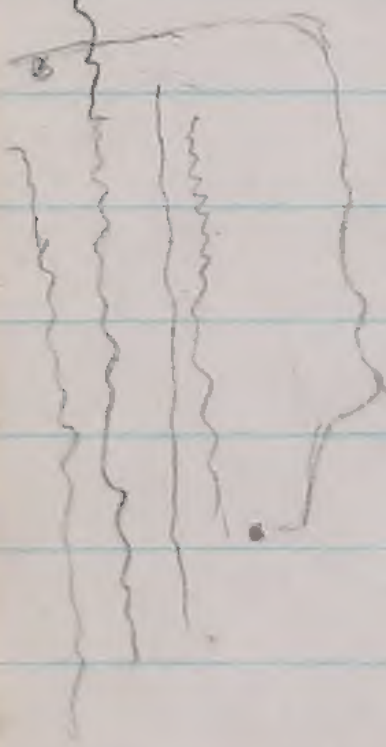
5600

3 rev. to right to D'E

left. 2nd around on J.

right to D.

turn key to left.



11.1

135 | 1502

135

152

135

170

677.0